

Overview of Gene Discovery Strategy

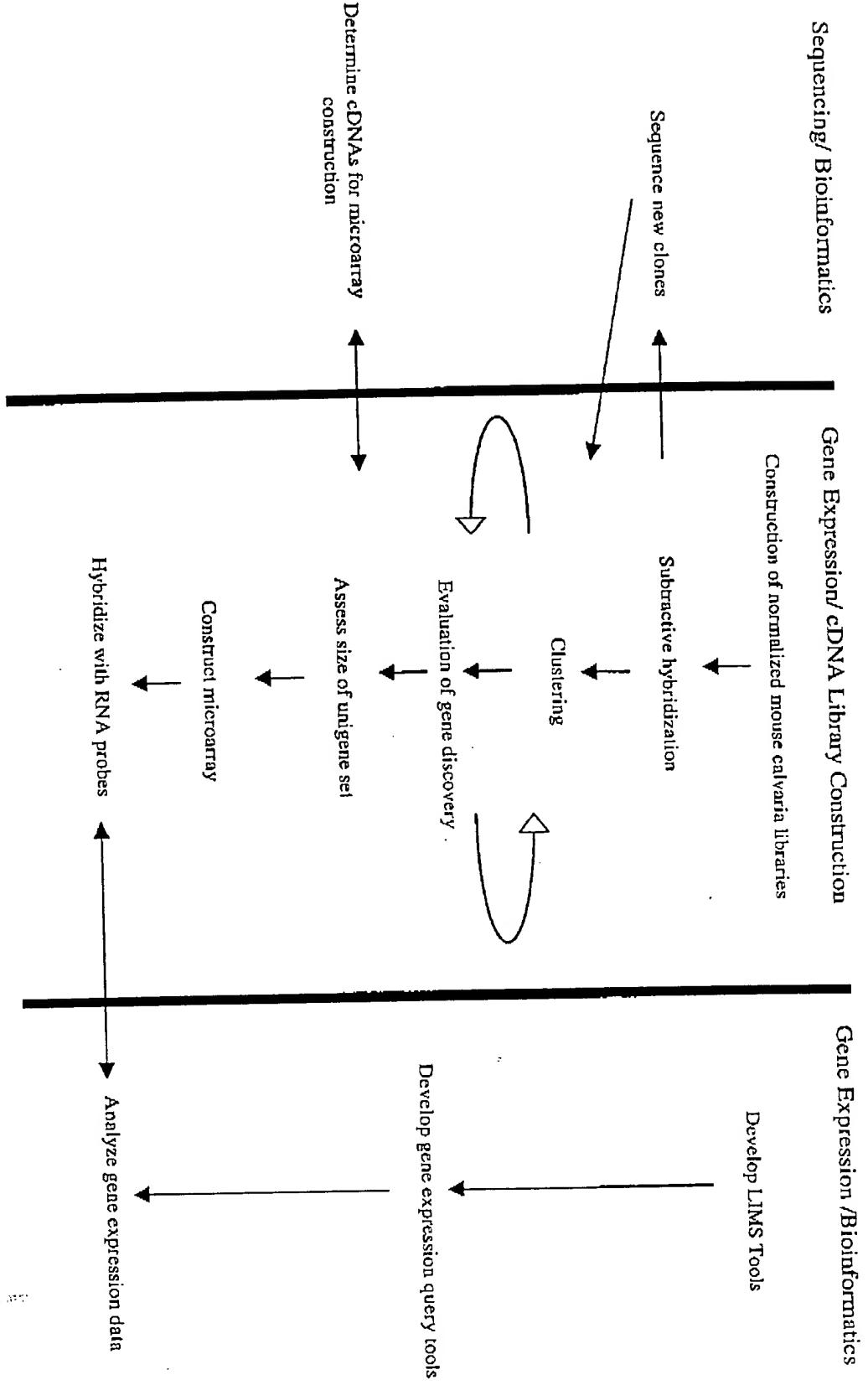
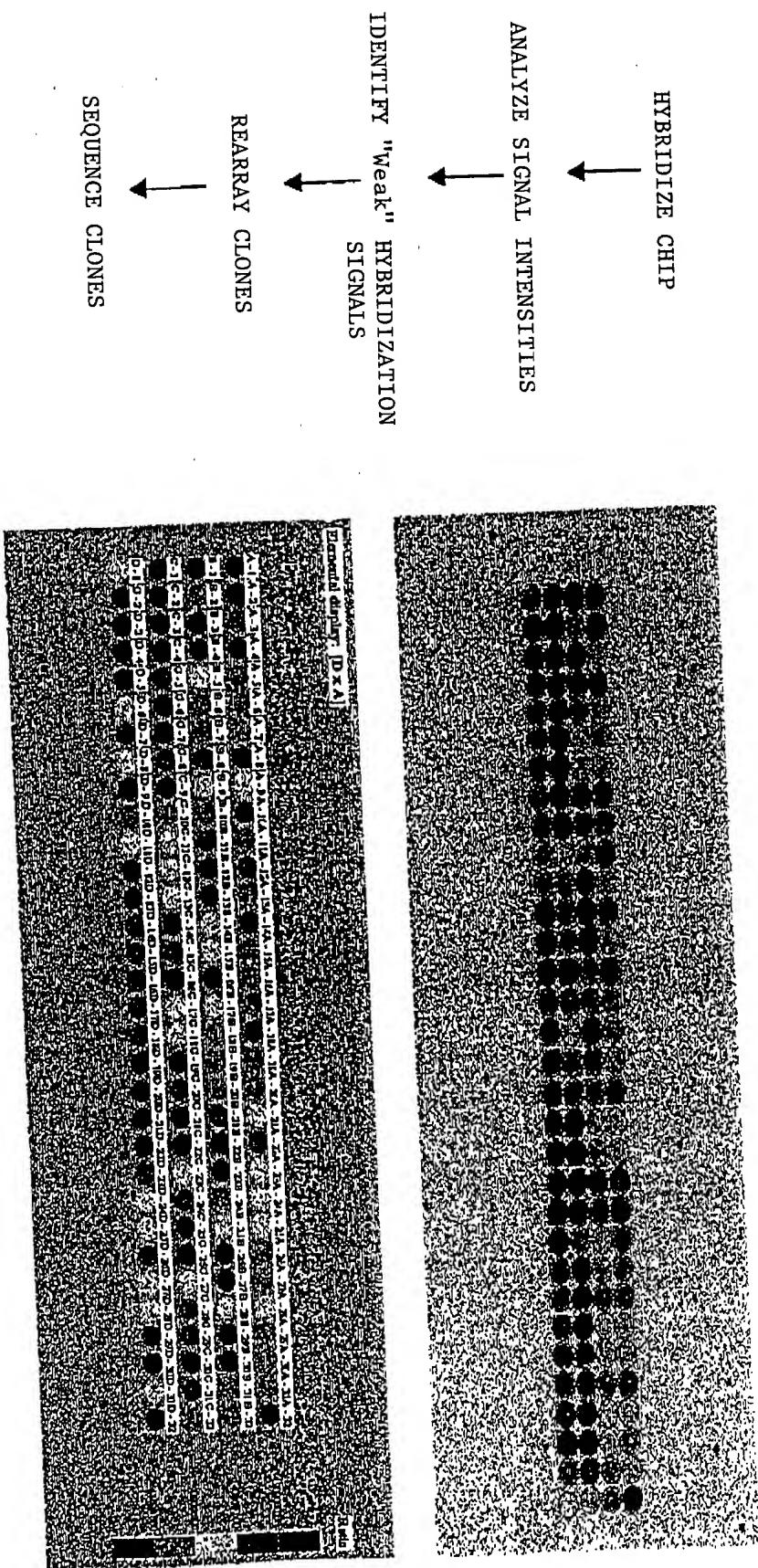


Fig.

Identification of Novel Clones by Subtractive Hybridization



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Construction of HAGC Mouse Calvaria Unigene Chip

Gene Expression/ cDNA Library Construction

Sequencing Bioinformatics

Arrayed and glycerol stocked 27,648 clones from normalized mouse calvaria libraries

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Amplified and gel verified 27,648 cDNA inserts

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Constructed 18 microarrays

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Subtractive Hybridization of 26,112 cDNAs

7,790 cDNAs Sequenced

Blast sequences: pubEST,
genbank NR, Incyte

Evaluation of Gene Discovery

Determine cDNAs for microarray
construction

Determine cDNAs for microarray
construction

Rearray 4,603 cDNAs from 82 96 well plates

Amplify/gel verify 4,608 cDNA Inserts

Purify 4,608 cDNA Inserts and construct microarray

7/16/03

Removal of High Abundant Nucleic Acids from Libraries

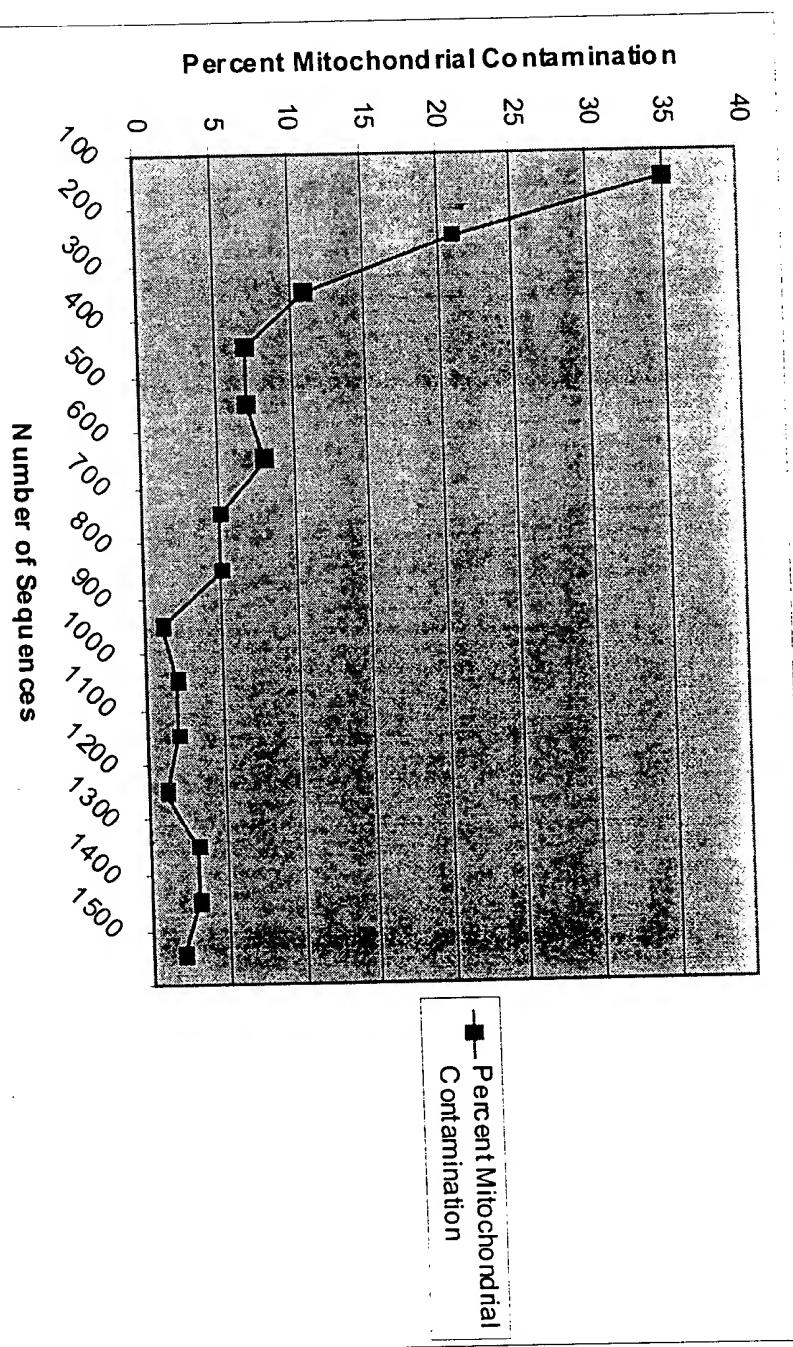


FIG. 4
PAGE 32, FIG. 4, 2000